



RESOLUTION

APPROVING NEW CITY INVOLVED WORK ELEMENTS FOR INCLUSION IN THE
FEDERAL FISCAL YEAR 2017 OVERALL WORK PROGRAM.

WHEREAS, Part 450 of Title 23, Code of Federal Regulations ("CFR"), and Part 613 of Title 49 CFR, set forth regulations governing the development of a Unified Planning Work Program ("UPWP") by a metropolitan planning organization; and

WHEREAS, federal regulations require that the UPWP describe all metropolitan transportation planning activities to be performed with federal highway and transit funds, and documents those planning activities; and

WHEREAS, the Oahu Metropolitan Planning Organization ("OahuMPO") in cooperation with its participating agencies annually prepares the Overall Work Program ("OWP") for Oahu; and

WHEREAS, the Federal Fiscal Year 2017 OWP will identify new planning projects proposed to receive federal funding assistance; and

WHEREAS, Section 4-2.2 of the Revised Ordinances of Honolulu 1990 ("ROH") requires that all City projects involving or affecting the OahuMPO for which assistance is desired under any federal act, program or regulation must be initiated by submission of the proposed project to the City Council for its prior approval; and

WHEREAS, ROH Section 4-2.2 further authorizes the Director of the Department of Transportation Services ("DTS") to forward the proposed projects approved by the City Council to the OahuMPO for appropriate review and action; now, therefore,

BE IT RESOLVED by the Council of the City and County of Honolulu that the new City involved work elements for Federal Fiscal Year 2017 set forth in Exhibit A hereto and incorporated herein, are hereby approved; and

BE IT FURTHER RESOLVED that the DTS Director may make minor or editing changes to the work elements set forth in Exhibit A hereto, provided that no substantive additions or deletions may be made; and



RESOLUTION

INTRODUCED BY:

(br)

MAR 17 2016

Honolulu, Hawaii

Councilmembers

LIST OF NEW CITY INVOLVED WORK ELEMENTS
FOR INCLUSION IN THE FEDERAL FISCAL YEAR 2017
OVERALL WORK PROGRAM

Work Element Number	Overall Work Program Project Title
206.02-17	Oahu Coastal Communities Evacuation Planning Project – Phase 2
202.07-17	Oahu Bike Plan Update
203.07-17	Review and Update of planned Rights-of-Way for Existing Streets
202.06-17	Intelligent Transportation System (ITS) Architecture and Plan Update

Intelligent Transportation System (ITS) Architecture and Plan Update

WE Number	202.06-17	Period of Performance	FFY 2017
Agency	Department of Transportation Services City and County of Honolulu	Phone Number	808-768-8310
Coordinator	Don Hamada	Fax Number	NA
Position	Chief Planner	Email Address	dhamada@honolulu.gov

Objective: Update the Oahu Regional ITS Plan

As advancing ITS-related projects are implemented on Oahu, the Oahu Regional ITS Plan needs to be updated to reflect new functions, priorities, initiatives, technologies, strategies, and services which emerge through Oahu's transportation planning and design process. The project's goal is to complete a current Architecture which identifies accurately Oahu's on-going ITS programs, integration, and capabilities, and will serve as guidance for present ITS functions, expansion of ITS services, and evolution of new concepts.

Project Description: Maintenance of Oahu Regional ITS Architecture Plan

Oahu Regional ITS Architecture Plan is a framework of institutional agreements and technical integration of ITS functions. The Architecture is functionality-based and not technology driven. Integration of various ITS functions requires an Architecture addressing placement and compatibility of each stakeholder's functions and systems. As Oahu has made substantial ITS progress, the project will identify and modify the existing 2003 Architecture to reflect the latest ITS functions, systems, and services developed by various stakeholders. The maintenance configurations for Oahu's Architecture are likely to come from:

- a) Changes in Oahu Regional Needs;
- b) Changes in Stakeholders;
- c) Changes in expanding Scope of Services;
- d) Changes in Oahu Architecture framework and consistency with Hawaii State Architecture;
- e) Changes due to Project Definitions or Implementation;
- f) Changes due to Project Additions or Deletions; and
- g) Changes in Project Priority, Deployment, or Status.

Work Products/Outcomes: Current Oahu Regional Architecture ITS Plan

Within 15 months, the project will deliver an updated Oahu ITS Architecture Plan to serve as a useful and current institutional functional reference and guidance for ITS projects. The maintenance of the ITS architecture will address the prevailing base components such as: Description of the Region; List of Stakeholders; Operational Concept; List of ITS Elements; List of Agreements; Interfaces between Elements; System Functional Requirements; Application of ITS Standards; Project Scheduling; and Configuration Management.

Project Justification: Statutory Requirement and Reference

The maintenance of an Architecture Plan is a requirement of the FHWA DOT ITS Architecture Standards Final Rule which applies to agencies and stakeholders accepting FHWA funds for their ITS needs. Besides the statutory FHWA requirement, the purpose of maintaining Oahu's ITS architecture is relevancy and usefulness as a technical and institutional reference as agreed upon by stakeholders when developing their ITS projects.

Previous or Ongoing Work Related to Proposed Planning Study or Project:

- a) Oahu Regional ITS Architecture (2003)
- b) Hawaii DOT Development of Statewide ITS Architecture (2016)

FY 2017 Preliminary Staff Labor Commitment to the Work Element

Task #	Position/Agency	Staff Labor (Hours)	Staff Labor Budget
NA	NA		
STAFF LABOR SUB-TOTAL EXPENDITURES			\$0

FY 2017 Preliminary Work Element Tasks & Budget

Task #	Staff Labor Commitment	Estimated Completion Date	Task Budget
NA	NA		
STAFF LABOR SUB-TOTAL EXPENDITURES			\$0
Task #	Consultant Services		
1	Program Management Plan. Overview of existing Architecture and Educational Briefing of Concepts; Project Management; Progress Reporting; and Invoicing.	01/2017+	\$20,000
2	Project Initiation. Identify Stateholders; KickOff Meetings; and Interview Stakeholders;	03/2017	\$50,000
3	Baseline Assessment Inventory systems; Determine Needs and Services; and Develop Operational Concepts.	05/2017	\$50,000
4	Build Turbo Architecture Database. Functional Requirements; Interconnects; Architecture Flows; and ITS Standards.	06/2017	\$15,000
5	Draft Regional ITS Architecture. Web-based Draft Architecture; Draft Architecture Document; FHWA Architecture Checklist; and Present Architecture to Stakeholders.	08/2017	\$30,000
6	Final Architecture. Web-based Final Architecture; Final Architecture Document; and Executive Summary.	09/2017	\$10,000
7	Agreements. Stakeholder and other Agencies Agreements; Operational Responsibilities; Security Issues; and Infrastructure, Operational, and Maintenance Costs.	12/2017	\$15,000
8	Administrative, Agency, and Community Briefings. Briefing Materials and Meeting Summaries.	03/2018	\$10,000
CONTRACT SERVICE SUB-TOTAL EXPENDITURES			\$200,000
Other Costs (e.g., software, travel, equipment, etc.)			\$0
Extra Work			\$10,000
Reimbursables			\$5,000
OTHER COSTS SUB-TOTAL EXPENDITURES			\$15,000
TOTAL WORK ELEMENT COST			\$215,000

Prepared by: Don Hamada

Date: 03/01/2016

FY 2017 Overall Work Program



Oahu Coastal Communities Evacuation Planning Project – Phase 2

WE Number	206.02-17	Time Period	October 1, 2016 – September 30, 2019
Agency	Department of Emergency Management	Phone Number	808-723-8960
Coordinator	Crystal van Beelen	Fax Number	808-524-3439
Position	Disaster Preparedness Officer	Email Address	cvanbeelen@honolulu.gov

Objectives:

Following on the heels of the completion of an emergency evacuation plan for the geographic areas of Ewa, Kaiaeloa, Ko Olina, Nanakuli, Maili, Waianae, Makaha, Mokuleia-Waialua, Waimea-Sunset Beach, Kahuku, Laie, Hauula, Kaaawa, Waikane-Waiahole, Kahaluu, Heeia, Kaneohe, Kailua, and Waimanalo, this Phase 2 study would include the remaining coastal areas not included as part of the Phase 1 study. The plan will include identifying refuge areas and shelter facilities as appropriate. If private road access will be required, the study will identify coordination/collaboration requirements. Additionally, the plan will also have a GIS evacuation route/tsunami boundary signage plan for Oahu using standard approved Manual of Uniform Traffic Control Devices (MUTCD) and NOAA/FHWA signs, and establish policies and procedures for tsunami-ready multi-story buildings in urban areas along the southern coast of Oahu for vertical evacuation.

Project Description:

The project will be accomplished by a consultant contractor over an estimated 36 month period. The consultant is expected to initially perform a gap analysis to validate the study areas and prepare a work plan to accomplish the planned work. Field work will include site visits and field interviews with community organizations and private land owners to determine MOA and other supporting use agreement documentations that should be put in place to permit usage during an expected emergency event. Public coordination/collaboration will include meetings with governmental and NGO partners including SCD, DOT, DOH, HAH, JTFHD, Outdoor Circle, community associations, and City departments. These meetings will provide input into the preparation of the GIS maps to delineate the evacuation routes and locations of recommended Route and Tsunami Boundary signage. In addition, the study will include a vertical evacuation module for urban areas. The entire study report, final product along with an Executive Summary of the project will be delivered with four (4) hard copies and two (2) CD.

Work Products/Outcomes:

An Emergency Evacuation Plan for the areas of Hawaii Kai, Aiea Haina, Waialae-Kahala, Waikiki, Ala Moana, Kakaako, Downtown, Kalihi, the Honolulu International Airport, Aiea, Pearl City, and Waipahu.

Project Justification:

This project will document the informational gap that currently exists for the Community and visitor population on recommended evacuation routes from the coastal areas. In addition to the providing recommended evacuation routes, it will provide and identify locations for of refuge areas, shelter locations, and traffic signage which is not currently available. The Tsunami Evacuation zone Boundary signage will also help to better establish the minimum safe evacuation distance from the coastal shoreline which also does not currently exist.

Previous or Ongoing Work Related to Proposed Planning Study or Project:

Previous completed projects include various flood hazard analyses and storm surge modeling studies which would be made available for background and reference purposes.

FY 2017 Staff Labor Commitment to the Work Element

Position/Agency	Staff Labor (Hours)	Staff Labor Budget
DEM Staff		\$0
STAFF LABOR SUB-TOTAL		\$0

FY 2017 Overall Work Program

**FY 2017 Work Element Tasks & Budget**

Task #	Task	Estimated Completion Date	Budget
Staff Tasks			
	N/A		\$0
STAFF LABOR SUB-TOTAL			\$0
Consultant Tasks			
1	Gap Analysis		\$80,000
2	Field Work for Geographic Area Evacuation Route Plan (various)		\$150,000
3	Plan development for Geographic Area Evacuation Route Plan (various); includes private road analyses		\$250,000
4	GIS Mapping effort		\$80,000
5	Vertical Evacuation Module		\$150,000
6	Public Outreach Effort		\$90,000
CONSULTANT SUB-TOTAL			\$800,000
Other Costs (e.g., travel, software, equipment, etc.)			
	N/A		
OTHER COSTS SUB-TOTAL			\$0
WORK ELEMENT GRAND-TOTAL			\$800,000

FY 2017 Overall Work Program



Oahu Bike Plan Update

WE Number	202.07-17	Time Period	July 1, 2016 – June 30, 2019
Agency	Department of Transportation Services	Phone Number	808-768-8335
Coordinator	Chris Sayers	Fax Number	808-768-4775
Position	Bicycle Coordinator	Email Address	Csayers@honolulu.gov

Objectives:

Update the current Oahu Bike Plan, an island-wide bicycle master plan, which would satisfy the Honolulu City Council requirement to update the bike plan every five years.

Project Description:

This bike plan update will greatly improve the bikeway network and will be enhanced with the addition of protected bike lanes, which are preferred by most bicyclists. This will give more travel options for people that might not normally choose to ride a bicycle.

Work Products/Outcomes:

The update would include new bikeway designs, such as protected bike lanes, that are proving to be the preferred bikeway design. Protected bike lanes are not included in the current Oahu Bike Plan. This bike plan update would include a protected bike lane network with conceptual plans and design details for key bikeways.

Project Justification:

Bicycling is a transportation mode that is increasing on Oahu and will continue to do so as long as there are safe places for people to ride. The King Street protected bike lane has seen an 88% increase in bicycle use since it opened in December 2014. With bike share coming to Honolulu in 2016 there will be an even greater need for protected bike lanes and safe bikeways.

Previous or Ongoing Work Related to Proposed Planning Study or Project:

The current Oahu Bike Plan was completed in 2012.

FY 2017 Staff Labor Commitment to the Work Element

Position/Agency	Staff Labor (Hours)	Staff Labor Budget*
DTS Staff		\$0
STAFF LABOR SUB-TOTAL		\$0

FY 2017 Work Element Tasks & Budget

Task #	Task	Estimated Completion Date	Budget*
Staff Tasks			
			\$0
STAFF LABOR SUB-TOTAL			\$0
Consultant Tasks			
1	Inventory of existing plan	6/2017	\$50,000
2	Public Involvement Component	12/2017	\$50,000
3	Draft Plan	6/2018	\$100,000
4	Final Plan	9/2018	\$40,000
CONSULTANT SUB-TOTAL			\$240,000
Other Costs (e.g., travel, software, equipment, etc.)			
	Consultant Travel Expenses		\$10,000
OTHER COSTS SUB-TOTAL			\$0
WORK ELEMENT GRAND-TOTAL			\$250,000



Review and Update of Planned Rights-of-Way (ROW) for Existing Streets

WE Number	203.07-17	Time Period	July 1, 2016 – Dec. 31, 2019
Agency	Department of Transportation Services	Phone Number	808-768-8304
Coordinator	Mark Garrity	Fax Number	808-768-4730
Position	Deputy Director	Email Address	mgarrity@honolulu.gov

Objectives:

This study will review the City's existing policies regarding widening and improvement of existing streets islandwide, consistent with recommendations from the Primary Urban Center Development Plan and the ongoing Complete Streets Implementation Study. The goals of this important efforts are:

- To undertake a comprehensive review and update of the entire island's planned street widening maps based on current land use plans, best practice planning models, and updated assumptions regarding trip generation by different modes of travel;
- To help identify how street rights-of-way (ROW) can best be allocated to the various modes of transportation, resulting in an overall optimal movement of people regardless of mode;
- To ensure the implementation of the goals and requirements of the Complete Streets ordinance as it applies to existing streets and ROWs;
- To prepare for the rail transit system and assist with implementation of the neighborhood transit-oriented development (TOD) plans;
- To increase safety, accessibility, mobility, and connectivity for motorized and non-motorized users; and
- To ensure an engagement process with the public and planning and engineering professionals.

Project Description:

The Department of Transportation Services (DTS) prepares the Planned Right-of-Way Widening Maps (created in the 1950s or earlier) and promulgates the Rules for the Establishment and Administration of Right-of-Way Widths and Setback Lines for Planned Street and Public Transit Improvements, adopted in the early 1980s. The Department of Planning and Permitting (DPP) enforces the street widenings and setback lines when reviewing applications for land use and building permits. Widenings are primarily triggered by Chapter 14, Article 21 of the Revised Ordinances of Honolulu (Ordinance 2412), which requires parties redeveloping or subdividing properties to dedicate land and construct street improvements according to the street widening plans.

The planned street widening maps and the companion regulations are based on land use policy plans that are many decades out of date, which results in a variety of undesirable consequences that negatively affect the local transportation network and diminish the capacity of implementing complete streets. These impacts include "sawtooth" sidewalk facilities, removal of mature trees, absence of bicycle facility considerations, and undesirable/unrealistic roadway widenings. These regulations may also be a barrier to redevelopment in certain areas. Until such time as updates can be made to the planned street sections, the City is required by law to continue to implement roadway widenings and street setbacks that may no longer be desirable for certain roadway segments.

This project will allow the DTS, in conjunction with its partner City agencies, to review and update the existing planned street widening maps for the entire island to determine the appropriateness of the planned ROWs based on current land use plans, the Honolulu Complete Streets Manual, a survey and evaluation of existing conditions, and community input. The project will also include an assessment of ROW widths necessary to improve conditions to meet minimum public health and safety standards. Updated maps and rules would help the City implement both roadway widenings, where still desired and appropriate, and complete streets improvements in urban areas, Transit-Oriented Neighborhoods (TOD) neighborhoods, and locations near schools and other pedestrian-trip generators.

FY 2017 Overall Work Program

**Work Products/Outcomes:**

The project will produce the following deliverables for use by the agencies involved in implementing changes to City streets:

- Updated street section maps based on current land use planning models and assumptions regarding trip generation by different modes of travel;
- List of streets in most critical need for improving access for emergency vehicles and/or that are a safety hazard for pedestrians;
- Identification of other ROWs needing priority improvements;
- List of locations, and best practices and recommendations of alternative strategies for improvement, of sections of street frontage where the ROW has been widened but is not usable for traffic because adjacent ROW frontages have not been widened;
- Appropriate documentation of the public input process used for the analysis, any data or findings, and other relevant information that was used to form the final recommendations is expected;
- Recommendations for amendments to City ordinances and policies to achieve desired street sections, including financial strategies.

Project Justification:

Implementation of this work element will ensure that policies and recommendations contained in the plans listed below can be implemented. In addition, this work element supports the State of Hawaii's Complete Streets Policy and the City and County of Honolulu's Complete Streets Ordinance.

- Oahu General Plan
- City's Development Plans and Sustainable Communities Plans
- Neighborhood TOD Plans
- Hawaii Statewide Pedestrian Master Plan
- Oahu Bike Plan
- Making Honolulu an Age-Friendly City: An Action Plan

Previous or Ongoing Work Related to Proposed Planning Study or Project:

Complete Streets Implementation Study (OWP FY14-15)

Plans listed above

FY 2017 Staff Labor Commitment to the Work Element

Position/Agency	Staff Labor (Hours)	Staff Labor Budget
DTS Staff		\$0
STAFF LABOR SUB-TOTAL		\$0

FY 2017 Overall Work Program

**FY 2017 Work Element Tasks & Budget**

Task #	Task	Estimated Completion Date	Budget
Staff Tasks			
STAFF LABOR SUB-TOTAL			
			\$0
Consultant Tasks			
1	Survey and evaluate existing conditions and relevant land use plans for each area	3/2017	\$90,000
2	Create and implement a public involvement plan to determine vision for islandwide streets	11/2017	\$50,000
3	Identify improvements to streets	3/2018	\$250,000
4	Update street widening maps and create GIS inventory	6/2018	\$50,000
5	Produce draft and final report, including recommendations of ordinance/policy changes	9/2019	\$50,000
6			
CONSULTANT SUB-TOTAL			
			\$490,000
Other Costs (e.g., travel, software, equipment, etc.)			
	25 copies of draft report, including updated maps		\$5,000
	25 copies of final report, including updated maps		\$5,000
OTHER COSTS SUB-TOTAL			
			\$10,000
WORK ELEMENT GRAND-TOTAL			
			\$500,000

CITY COUNCIL
CITY AND COUNTY OF HONOLULU
HONOLULU, HAWAII
C E R T I F I C A T E

RESOLUTION 16-71

Introduced: 03/17/16

By: ERNEST MARTIN – BY REQUEST

Committee: TRANSPORTATION

Title: RESOLUTION APPROVING NEW CITY INVOLVED WORK ELEMENTS FOR INCLUSION IN THE FEDERAL FISCAL YEAR 2017 OVERALL WORK PROGRAM.

Voting Legend: * = Aye w/Reservations

03/31/16 TRANSPORTATION CR-108 – RESOLUTION REPORTED OUT OF COMMITTEE FOR ADOPTION.

04/20/16 COUNCIL CR-108 AND RESOLUTION 16-71 WERE ADOPTED.

8 AYES: ELEFANTE, FUKUNAGA, KOBAYASHI, MANAHAN, MARTIN, MENOR, OZAWA, PINE.

1 ABSENT: ANDERSON.

I hereby certify that the above is a true record of action by the Council of the City and County of Honolulu on this RESOLUTION.



GLEN I. TAKAHASHI, CITY CLERK



ERNEST Y. MARTIN, CHAIR AND PRESIDING OFFICER